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The Protection of Hays: 1979-85

Citations from Agricola Concerning Diseases and Other Environmental Considerations

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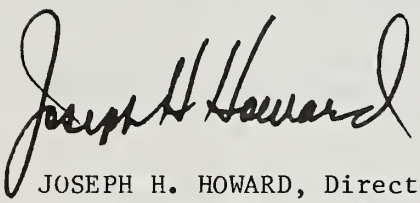
FOREWORD

This is the 11th volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



JOSEPH H. HOWARD, Director
National Agricultural Library

DOUGLAS D. CAMPT, Director
Office of Pesticide Programs

INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of conservation tillage. All citations are derived from AGRICOLA (AGRICultural Online Access), the family of databases compiled by the National Agricultural Library and its cooperators.

This is the 11th bibliography included in a series of commodity-oriented environmental databases jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes issued recently or planned for the immediate future concern protection of corn, soybeans, pome fruits, stone fruits, grain sorghum, rice, and peanuts.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

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The Protection of Hays, 1979-85

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CRPSAY. Taylor, N.L. Diachun, S.; Ghabrial, S.A. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1985. v. 25 (4). p. 714-715. Includes 5 references. (NAL Call No.: DNAL 64.8 C883).

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Alfalfa winter injury, survival, and vigor determined from aerial photographs (Remote sensing, soil drainage).
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Peterschmidt, N.A. Delaney, R.H. Madison, The Society. Agronomy journal.American Society of Agronomy. Sept/Dct 1979. v. 71 (5). p. 752-754. ill. 11 ref. (NAL Call No.: 4 AM34P).

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WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.
ALFALFA CDUNTY CONSERVATION DISTRICT. STILLWATER, OKLAHDMA OEPARTMENT OF AGRICULTURE, SDIL CDNSERVATIDN SERVICE JUNE 1983 (EPA: JUNE 20, 1983). (PUR)IMPLEMENTATION DF A FLDDO CONTRDL AND WATERSHED PROTECTIDN PLAN FDR THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR CDUNTIES DF NDRTHCENTRAL DKLAHDMA IS PROPDSED. THE PLAN WDULD INVDLVE CDNSTRUCTIDN DF 11 FLODOWATER-RETARDING STRUCTURES AND DEVELDPMENT OF WILDLIFE MITIGATIDN MEASURES ON 43.5 ACRES DF LAND OVER A SIX-YEAR PERIDO. APPRDXIMATELY 62 STAFF-YEARS DF TECHNICAL ASSISTANCE WOULD BE PROVIDED TO FURTHER PLANNING GDALS. THE FLOOOWATER-RETARDING STRUCTURES WOULD BE CDMPACTED EARTHFILL EMBANKMENTS; BDRRDW MATERIAL WOULD BE TAKEN MDSTLY FROM AREAS BELDW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WDULD CDNSIST DF ORDP-INLET STRUCTURES WITH STANDARD DPEN-TOP CONCRETE RISERS AND CDNCRETE CDNOUITS. EMERGENCY SPILLWAYS WOULD BE FORMEO OF ROCK OR VEGETATEO EARTH. ALL STRUCTURES WDULO OPERATE AUTOMATICALLY, WITH FLOOOWATER BEING TEMPORARILY STOREO IN OETENTION POOLS ANO RELEASEO AT A CONTROLLEO RATE THROUGH THE PRINCIPAL SPILLWAYS. NINE OF THE STRUCTURES WDULO CDNTROL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WOULO CDNTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINEO IN THE SEOIMENT POOLS WOULO BE DISPLACEO BY SEOIMENT OVER THE 100-YEAR LIFE DF EACH STRUCTURE. LANO RIGHTS WOULO BE ACQUIREO ON THE 43.5 ACRES TO BE MANAGEO FOR MITIGATION OF IMPACTS TO WILOLIFE HABITAT. MITIGATIDN LANOS WOULO INCLUDE 13 ACRES DF RANGELAND, 18 ACRES DF TIMBERLAND, ANO 12.5 ACRES DF CRDPLAND AND/DR PASTURE. COST OF THE PROJECT IS ESTIMATED AT $4.6 MILLIDN, AND THE ESTIMATED BENEFIT-CDST RATIO IS 1.24. (PDS)DPERATION DF THE FLDOD CONTROL STRUCTURES WDULD REDUCE FLDDDWATER DAMAGE TD 17,598 ACRES DF AGRICULTURAL LAND, REOUCE FLDDDING IN THE TDWN DF ODVER, REDUCE SEDIMENT DEPDSITIDN DOWNSTREAM OF THE STRUCTURES, AND MAINTAIN THE ENVIRONMENTAL QUALITY DF THE WATERSHED. AVERAGE ANNUAL SAVINGS RESULTING FRDM FLDDD PROTECTIDN PROVIDEO TD THE TOWN WDULD AMDUNT TD $7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FRDM AGRICULTURAL FLODD. USDA EMPLOYEES REQUEST OOCUMENTS FRDM NATIDNAL AGRICULTURAL LIBRARY OTHERS ORDER FRDM INFORMATION RESDURCES PRESS, 1700 NORTH MDDRE STREET, SUITE 70 O, ARLINGTDN, VA 22209.

1108

WATERSHED PLAN FOR TURKEY CREEK WATERSHED IN ALFALFA, GARFIELD, KINGFISHER, AND MAJOR COUNTIES, OKLAHOMA.
ALFALFA COUNTY CDNSERVATION DISTRICT. STILLWATER, OKLAHOMA DEPARTMENT DF AGRICULTURE, SOIL CDNSERVATIDN SERVICE APRIL 1982 (EPA: APRIL 20, 1982). (PUR)IMPLEMENTATIDN DF A FLDDD CDNTROL AND WATERSHED PRDTECTIDN PLAN DN THE 244,006-ACRE TURKEY CREEK WATERSHED IN ALFALFA, GARFIELO, KINGFISHER, AND MAJOR CDUNTIES DF NORTHCENTRAL OKLAHDMA IS PROPOSED. THE PLAN WOULD INVDLVE CONSTRUCTIDN DF 11 FLDDOWATER-RETARDING STRUCTURES ANO DEVELOPMENT OF WILDLIFE MITIGATIDN MEASURES DN 43.5 ACRES OF LAND DVER A SIX-YEAR PERIDD. APPRDXIMATELY 62 STAFF-YEARS OF TECHNICAL ASSISTANCE WDULO BE PRDVIDEO TD FURTHER PLANNING GDALS. THE FLDOOWATER-RETARDING STRUCTURES WDULD BE CDMPACTED EARTHFILL EMBANKMENTS, ANO BDRRDW MATERIAL WOULD BE TAKEN MOSTLY FROM AREAS BELOW THE SPILLWAY CREST. ALL PRINCIPAL SPILLWAYS WOULD CONSIST OF ORDP-INLET STRUCTURES WITH STANDARD OPEN-TDP CDNCRETE RISERS AND CDNCRETE CONOUITS. EMERGENCY SPILLWAYS WDULD BE FDRMED DF RDCK DR VEGETATEO EARTH. ALL STRUCTURES WDULD OPERATE AUTOMATICALLY, WITH FLDODWATER BEING TEMPORARILY STDREO IN OETENTION PDDLS AND RELEASEO AT A CDNTROLLED RATE THRDUGH THE PRINCIPAL SPILLWAYS. NINE DF THE STRUCTURES WOULD CONTRDL THE 25-YEAR FREQUENCY STORM, WHILE THE REMAINING STRUCTURES WDULO CDNTROL THE 50-YEAR FREQUENCY STORM. WATER INITIALLY RETAINEO IN THE SEDIMENT PDOLS WDULO BE OISPLACED BY SEOIMENT OVER THE 100-YEAR LIVE LIFE OF EACH STRUCTURE. LAND RIGHTS WOULD BE ACQUIREO ON THE 43.5 ACRES TD BE MANAGEO FDR MITIGATION OF IMPACTS TO WILOLIFE HABITAT. MITIGATION LANOS WDULD INCLUOE 13 ACRES OF RANGELAND, 18 ACRES OF TIMBERLANO, ANO 12.5 ACRES OF CROPLANO ANO/OR PASTURE. COST OF THE PROJECT IS ESTIMATEO AT $4.3 MILLION, ANO THE ESTIMATEO BENEFIT-COST RATIO IS 1.27. (PDS)OPERATION OF THE FLOOO CONTROL STRUCTURES WOULO REOUCE FLOODWATER OAMAGE TO 17,598 ACRES OF AGRICULTURAL LANO, REOUCE FLOOOING IN THE TOWN OF OOVER, REDUCE SEOIMENT OEPOSITION OOWNSTREAM OF THE STRUCTURES, ANO MAINTAIN THE ENVIRONMENTAL QUALITY DF THE WATERSHEO. AVERAGE ANNUAL SAVINGS RESULTING FROM FLOOO PROTECTION

PROVIOEO TO THE TOWN WOULO AMOUNT TO $7,790, WHILE AVERAGE ANNUAL SAVINGS RESULTING FROM AGRICULTURA. USOA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

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Volatilization of S-ethyl N,N-dipropylthiocarbamate from water and wet soil during and after flood irrigation of an alfalfa field.
Cliath, M.M. AR-W. Spencer, W.F.; Farmer, W.J.; Shoup, T.D.; Grover, R. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. May/June 1980. v. 28. May/June 1980. v. 28 (3). p. 610-613. ill. 18 ref. (NAL Call No.: 381 J8223).

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Chemical preservation of alfalfa juice protein (Food or feed material).
Straub, R.J. Barrington, G.P.; Bruhn, H.D.; Koegel, R.G. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1539). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Yield, chemical composition, and feeding value for milk production of alfalfa hay cut at three stages of maturity by J.R. Dawson, D.V. Kopland, and R.R. Graves.
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Chemical conditioning to speed alfalfa drying.
Rotz, C.A.AFGCA. Thomas, J.W. Lexington : The Council. Proceedings - American Forage and Grassland Council. 1983. Paper presented at the Forage and Grassland Conference on "Use Home Grown Forages for Profit and Conservation", Civic Center, Eau Claire, Wisconsin, Jan 23-26, 1983. 1983. p. 163-169. Includes references. (NAL Call No.: 60.19 J66).

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Economics of chemical conditioning of alfalfa.
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Economics of chemically-conditioned alfalfa on Michigan dairy farms.
Rotz, C.A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1640). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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Hastening drying rate of cut alfalfa with chemical treatment.
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